SAFETY DATA SHEET
GARD EV60

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name GARD EV60

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Hot Melt Cleaner

1.3. Details of the supplier of the safety data sheet

Supplier

LARRAGARD LIMITED
Chapel Lane
Heckmondwike
West Yorkshire
WF16 9JP
Tel : +44 (0)1924 403550
Fax : +44 (0)1924 400999
Email : technical@gardchemicals.com

1.4. Emergency telephone number

Emergency telephone Tel : +44 (0)1924 403550 (Office Hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC/1272/2008)

Physical hazards Not Classified

Health hazards Asp. Tox. 1 - H304

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Xn;R65. R66.

2.2. Label elements

Pictogram

Signal word Danger

Hazard statements H304 May be fatal if swallowed and enters airways.

Precautionary statements

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.
P501 Dispose of contents/ container in accordance with national regulations.

Contains HYDROCARBONS

GARD EV60

Supplementary precautionary statements P405 Store locked up.

2.3. Other hazards

Hazard id 2a

Hazard ID 2A

"Hazard ID 2A"

Hazard

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HYDROCARBONS **30-60%**

CAS number: — EC number: 920-901-0

Classification	Classification (67/548/EEC or 1999/45/EC)
Asp. Tox. 1 - H304	Xn;R65. R66.

HYDROCARBONS **10-30%**

CAS number: — EC number: 927-285-2

Classification	Classification (67/548/EEC or 1999/45/EC)
Asp. Tox. 1 - H304	Xn;R65. R66.

HYDROCARBONS **10-30%**

CAS number: — EC number: 926-141-6

Classification	Classification (67/548/EEC or 1999/45/EC)
Asp. Tox. 1 - H304	Xn;R65. R66.

HYDROCARBONS **10-30%**

CAS number: Proprietary EC number: 918-167-1

Classification	Classification (67/548/EEC or 1999/45/EC)
Asp. Tox. 1 - H304 Aquatic Chronic 4 - H413	Xn;R65. R53,R66.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Ingredient notes MIXTURE OF SUBSTANCES LISTED ABOVE WITH NON-HAZARDOUS ADDITIONS.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation Move affected person to fresh air at once. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Ingestion Do not induce vomiting. Get medical attention immediately. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Skin contact	Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Upper respiratory irritation. Irritation of nose, throat and airway. Nausea, vomiting. Unconsciousness and convulsions can occur.
Ingestion	Harmful if swallowed. The product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours). May cause discomfort if swallowed. Nausea, vomiting. Central nervous system depression.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Oxides of carbon. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting	Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage.

6.2. Environmental precautions

Environmental precautions	Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water.

6.4. Reference to other sections

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid inhalation of vapours and spray/mists. Provide adequate ventilation. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Storage tanks and other containers must be earthed. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from heat, sparks and open flame. Earth container and transfer equipment to eliminate sparks from static electricity. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from the following materials: Acids. Oxidising materials. Suitable container materials: Mild steel. Stainless steel.

7.3. Specific end use(s)

Usage description Storage tanks must be positioned within a bunded area.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

HYDROCARBONS

Long-term exposure limit (8-hour TWA): OEL 1200 mg/m³
OEL = Occupational Exposure Limit.

8.2. Exposure controls

Protective equipment

Appropriate engineering controls Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Personal protection Do not allow material to contaminate groundwater system.

Eye/face protection Wear chemical splash goggles. Manufactured/Tested in accordance with EN 166.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Gloves are recommended for prolonged use. Manufactured/Tested in accordance with EN 374. Aliphatic hydrocarbon resistant gloves.

Other skin and body protection Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures Provide eyewash station and safety shower. Use engineering controls to reduce air contamination to permissible exposure level. Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection In confined or poorly-ventilated spaces, a supplied-air respirator must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

GARD EV60

Colour	Clear liquid.
Odour	Slight. Hydrocarbons.
Initial boiling point and range	180 - 240°C
Flash point	Not applicable.
Relative density	~0.76 @ 15°C
Solubility(ies)	Soluble in solvents

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Strong oxidising agents.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Reacts with strong oxidising agents. Hazardous Polymerisation Not relevant.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Thermal decomposition or combustion products may include the following substances: Aldehydes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Respiratory sensitisation

Respiratory sensitisation There is no evidence that the product can cause respiratory hypersensitivity.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

Carcinogenicity Carcinogenicity in humans is not expected.

Specific target organ toxicity - single exposure

STOT - single exposure No adverse effects known.

Aspiration hazard

Aspiration hazard Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

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General information	Prolonged contact may cause dryness of the skin.
Inhalation	Vapour may irritate respiratory system/lungs. Central nervous system depression.
Ingestion	Harmful if swallowed. May cause discomfort if swallowed. Nausea, vomiting. Diarrhoea. Risk of severe pulmonary problems in case of accidental aspiration.
Skin contact	Skin irritation should not occur when used as recommended.
Eye contact	May cause temporary eye irritation.

Toxicological information on ingredients.

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Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	3,000.0
Species	Rabbit

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	NOAEL >=5000 mg/kg, Oral, Rat

HYDROCARBONS

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	5,000.0
Species	Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	5,000.0
Species	Rat
ATE inhalation (vapours mg/l)	5,000.0

HYDROCARBONS

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat

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Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	5,000.0
Species	Rabbit

SECTION 12: Ecological Information

12.1. Toxicity

Ecological information on ingredients.

HYDROCARBONS

Acute toxicity - fish	, 96 hours: > 1000 mg/l,
Acute toxicity - aquatic invertebrates	, 48 hours: > 1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	, 72 hours: > 1000 mg/l,

HYDROCARBONS

Acute toxicity - fish	LC50, 96 hours: > 1000 mg/l, Onchorhynchus mykiss (Rainbow trout) LC_{50}, 96 hours: >1000ppm mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: > 1000 mg/l, Daphnia magna EC_{50}, 48 hours: >250ppm mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{50}, 72 hours: 20ppm mg/l, Algae

HYDROCARBONS

Acute toxicity - fish	LC50, >: > 100 mg/l,
Acute toxicity - aquatic invertebrates	EC_{50}, >: > 100 mg/l,
Acute toxicity - aquatic plants	EC_{50}, >: > 100 mg/l,
Chronic toxicity - fish early life stage	NOEC, <: < 1.0 mg/l,
Chronic toxicity - aquatic invertebrates	NOEC, <: 10 mg/l,

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Unlikely to pose a significant hazard to aquatic life.

12.4. Mobility in soil

Mobility Not known.

12.5. Results of PBT and vPvB assessment

GARD EV60

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class EWC NUMBER: Allocation of a waste code number in accordance with the European Waste Catalogue, should be carried out in agreement with an EA authorised waste disposal company.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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General information	Quality Assurance: Larragard Limited, Conforms to ISO 9001 : 2008 Cert. No. 14130209 Environmental Standard: Larragard Limited, Conforms to ISO 14001 : 2004 Cert No. 14124144 Occupational Health and Safety Management Systems: Larragard Limited, Conforms to OHSAS 18001 : 2007 Cert No. 14124145 NOTE: LARRAGARD LIMITED HAS SUPPLIED FULL INGREDIENT INFORMATION TO ALLOW NSF ASSESSMENT.
Revision date	26.02.14 - SDS10232
Revision	10.09.15
Risk phrases in full	R53 May cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking.
Hazard statements in full	H304 May be fatal if swallowed and enters airways. H413 May cause long lasting harmful effects to aquatic life.

Uses Advised Against: The product should not be used for any other purpose other than its intended use. Handling, storage and conditions to avoid instructions must be followed at all times.This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.